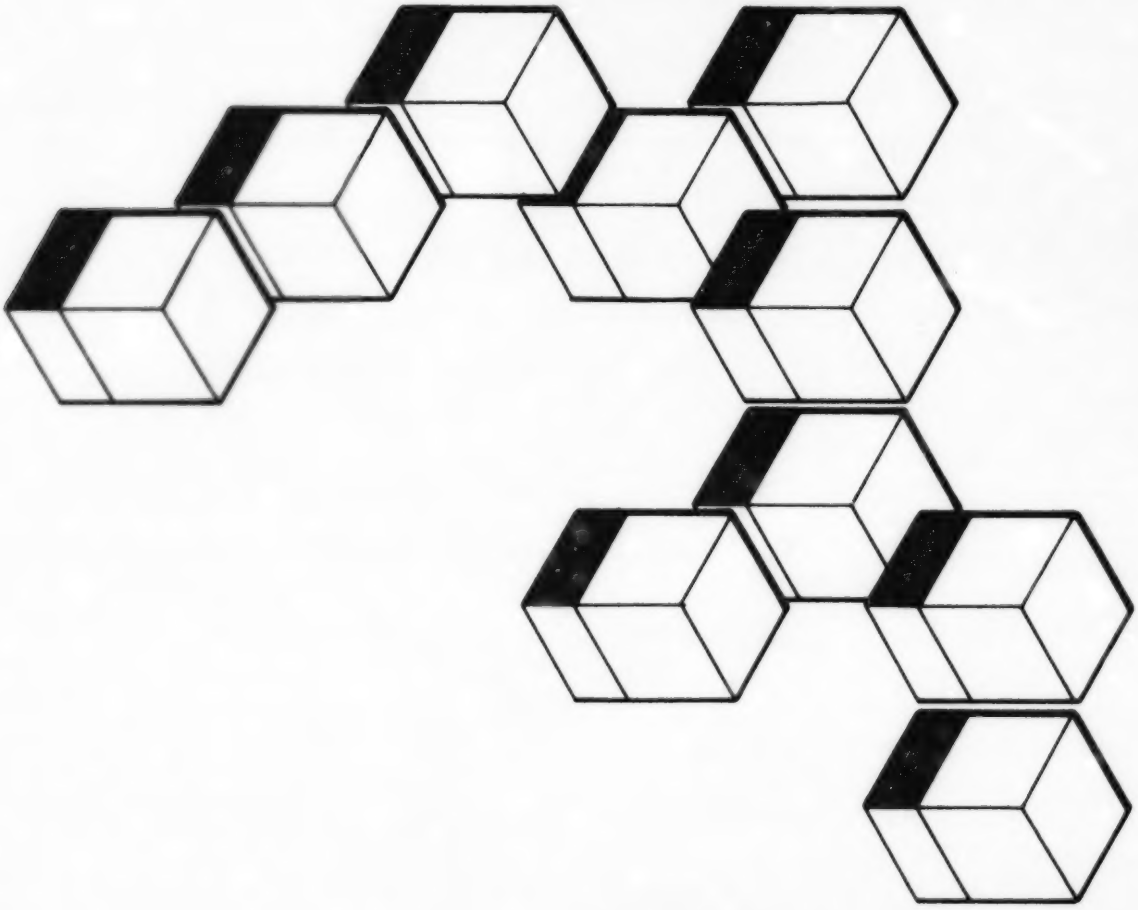
Agdex 641

Addendum to the *1984 Guide to Chemical Weed Control*



Manitoba
Agriculture

F O R E W O R D

The Addendum contains updated recommendations based on changes to herbicide registrations or new registrations approved since the 1984 Guide to Chemical Weed Control was printed. Use this Addendum as a supplement to the 1984 Guide to Chemical Weed Control.

SUMMARY OF ADDENDUM CONTENTS

(see page 11 for other changes)

Herbicide	Crops	Weeds
Avenge 200 C	Wheat (Columbus, Fielder, Leader, Neepawa, Glenlea, Selkirk, Chester, Macoun, Canuck and Benito)	Wild Oats
Bromox C-100	Wheat, oats, barley, triticale, flax, canary seed, corn, seedling forage grasses	See weed list for Pardner/Torch/ Torch DS in Field Crops Chart (Table 15 of the 1984 Guide).
Buctril M	1. Fall rye (spring application only) 2. Formulation change	Weeds listed for Buctril M on Table 15 of the 1984 Guide.
Fusilade	Flax, sunflowers, sugar beets, potatoes, alfalfa, red clover, and birdsfoot trefoil	Volunteer corn, volunteer wheat, volunteer barley, barnyard grass, wild oats, proso millet, crabgrass, green and yellow foxtail and top growth suppression of quackgrass.
Hoe-Grass 284	1. Barley (except Betzes, Klages, Glenn, Norbert) wheat, flax, rapeseed, peas, tame mustard, lentils, tame buckwheat, spring rye, fall rye, alfalfa, sweet clover, crested wheatgrass, intermediate wheatgrass, creeping red fescue, Russian wild ryegrass, bromegrass, triticale, sunflowers,	Weeds listed for Hoe-Grass on Table 15 of the 1984 Guide.

Herbicide	Crops	Weeds
Hoe-Grass 284 (continued)	sugar beets, potatoes, soybeans, onions, carrots, dry beans, and snapbeans 2. Formulation change	
Pardner	Fall rye (spring application only)	Weeds listed for Pardner/Torch/ Torch DS on Table 15 of the 1984 Guide.
Roundup	Chemical fallow	Volunteer cereals, volunteer rapeseed, green foxtail, wild mustard, lady's thumb, stinkweed, wild oats.
Roundup + Banvel	Chemical fallow	Volunteer cereals, volunteer rapeseed, green foxtail, wild mustard, flixweed, lamb's quarters, lady's thumb, stinkweed, kochia, Russian thistle, cow cockle, wild oats
Roundup + Torch or Pardner	Chemical fallow	Volunteer cereals, volunteer rapeseed, green foxtail, wild mustard, lady's thumb, stinkweed, wild buckwheat
Roundup + 2,4-D amine	Chemical fallow	Volunteer cereals, volunteer rapeseed, green foxtail, wild mustard, flixweed, red root pigweed, lady's thumb, stinkweed, kochia, wild oats

Herbicide	Crops	Weeds
Torch DS	Winter wheat and fall rye (for spring application only)	Weeds listed for Pardner/Torch/ Torch DS on Table 15 of the 1984 Guide.
Tordon 202 C	Revised recropping restrictions	Weeds listed for Tordon 202 C on Table 15 of the 1984 Guide.

ADDENDUM TO THE 1984 GUIDE TO

CHEMICAL WEED CONTROL

AVENGE 200 C (200 g/L)

Controls wild oats in Columbus, Fielder, Leader, Neepawa, Glenlea, Selkirk, Chester, Macoun, Canuck and Benito wheat only. Refer to the 1984 Guide to Chemical Weed Control for complete application details for use of Avenge in wheat, barley, and forage crops.

BROMOX C - 100 (450 g/L)

Controls several broadleaf weeds (see Pardner/Torch/Torch DS weed list on Field Crops Chart in the 1984 Guide). May be applied to spring wheat, oats, barley, triticale, flax, canary seed, corn and seedling forage grasses. For application rates, weed and crop stages, and other applications information refer to the application instructions for Torch DS in the 1984 Guide to Chemical Weed Control.

BUCTRIL M (560 g/L)

Apply this more concentrated formulation at a rate of 1.0 L/ha in all crops in which the use of Buctril is recommended. When tank mixing with Asulox F apply 750 mL/ha Buctril M. Refer to the 1984 Guide for recommended crops, other application instructions and weeds controlled.

As both the 560 g/L formulation and the previous 450 g/L formulation will be available in 1984, be sure to check the product label to determine the correct rate to use.

Buctril M is also registered for spring application to fall rye.

Apply 1.0 L/ha in 100 L water when weeds are in the two to four leaf stage. Fall rye may be safely sprayed until the flag leaf stage but weeds will not be adequately controlled once the crop shields the weeds.

FUSILADE (250 g/L)

Apply 600 mL/ha for control of volunteer corn; 800 mL/ha for control of barnyard grass, volunteer wheat and volunteer barley; 1.0 L/ha for control of wild oats, proso millet and crabgrass; 1.4 L/ha for control of green and yellow foxtail; or 2.0 to 4.0 L/ha for top growth suppression of quackgrass. Apply when green and yellow foxtail are in the two to four leaf stage, other annual grasses are in the two to six leaf stage, and quackgrass is in the three to five leaf stage. Rhizomes of quackgrass should be thoroughly fragmented by tillage in the spring prior to Fusilade application if the lowest recommended rate (2.0 L/ha) is to be utilized. Suppression of quackgrass in direct drilled or perennial crops requires use of the higher recommended rates (3.0 to 4.0 L/ha). Do not cultivate for five days after applying Fusilade.

Fusilade may be applied to flax, sunflowers, sugar beets, potatoes, alfalfa, red clover, and birdsfoot trefoil. Apply in 100 to 300 L water/ha at a pressure of 200 to 300 kPa using flat fan nozzles. Add Agral 90 at the rate of 1 L/1000 L of spray solution. Do not apply if rainfall is expected within two hours of application. Do not apply by air. Do not graze or harvest forage legumes for feed in the year of treatment. Do not apply less than 90 days before harvest.

Do not tank mix Fusilade with other herbicides or fertilizers. Other herbicides must be applied at least three days after Fusilade.

If Fusilade treated areas must be reseeded within 60 days of Fusilade application, seed only to one of the crops in which the use of Fusilade is recommended. CAUTION: Avoid drift onto adjacent crops of cereals, corn or forage grasses as severe crop injury will result.

HOE-GRASS 284 (284 g/L)

Apply this more concentrated formulation at a rate of 2.5 L/ha in wheat (spring, durum, winter), barley (not recommended on Betzes, Klages, Glenn and Norbert barley varieties), flax, rapeseed, peas, tame mustard, lentils, tame buckwheat, spring rye, fall rye, alfalfa, sweet clover, crested wheatgrass, intermediate wheatgrass, creeping red fescue, Russian wild ryegrass, bromegrass, triticale and sunflowers.

Apply 3.5 L/ha in sugar beets, potatoes, soybeans, onions, carrots, dry beans, and snap beans.

When tank mixing with Pardner or Torch in wheat, barley or flax, apply Hoe-Grass 284 at a rate of 2.8 L/ha tank mixed with the recommended rates of Pardner or Torch.

As both the 284 g/L and 190 g/L formulations of Hoe-Grass will be available in 1984 be sure to check the product label to determine the correct rate to use. Refer to the Hoe-Grass recommendations in the 1984 Guide to Chemical Weed Control for information on weeds controlled, stage of application and other application details.

PARDNER (225 g/L)

To control several broadleaf weeds (see Field Crops Chart in 1984 Guide) in fall rye apply 1.25 to 1.5 L/ha in 100 L water in the spring

when weeds are in the two to four leaf stage. Fall rye can be sprayed safely until the flag leaf stage but weeds will not be adequately controlled once the crop shields the weeds.

ROUNDUP (356 g/L)

For Chemical Fallow use Roundup (356 g/L) plus a non-ionic surfactant. Controls several annual grasses and annual broadleaf weeds. See Table 1. Apply 750 mL of Roundup plus 350 mL of a non-ionic surfactant in 50 to 100 L/ha of clean water for annuals less than 8 cm tall or 1.0 L of Roundup plus 350 mL of a non-ionic surfactant in 50 to 100 L/ha of clean water for annuals greater than 8 cm tall. For additional broadleaf weed control (see Table 1). Roundup at the above rates can be tank mixed with 350 mL/ha of Banvel or 1.25 L/ha of Torch or Pardner or with 700 mL/ha of 2,4-D amine containing 800 g/L 2,4-D plus 350 mL of a non-ionic surfactant in 50 to 100 L/ha of clean water. For perennial weed control consult the Perennial Weed Control section and Special Weed Problems section. Do not apply when weeds are under stress conditions such as drought or extreme temperatures. See Herbicide Information section for specific application instructions.

Table 1.

Weeds	Roundup 750 mL-1.0 L/ha	Roundup 750 mL-1.0 L/ha plus 350 mL/ha Banvel	Roundup 750 mL-1.0 L/ha plus 1.25 L/ha Torch or Pardner	Roundup 750 mL-1.0 L/ha plus 700 mL/ha 2,4-D amine[1]
Volunteer Cereals	C	C	C	C
Volunteer Rape	C	C	C	C
Green Foxtail	C	C	C	C[2]
Wild Mustard	C	C	C	C
Flixweed		C[2]		C
Lamb's Quarters		C		
Red Root Pigweed				C
Lady's Thumb	C	C	C	C
Stinkweed	C	C	C	C
Kochia		C		C
Wild Buckwheat			C[2]	
Foxtail Barley[3]	S	S	S	S
Russian Thistle		C		
Cow Cockle		C		
Wild Oats	C	C		C[2]

C = Control

S = Suppression

1 - 800 g/L 2,4-D formulation, adjust rates accordingly for other concentrations of 2,4-D

2 - Roundup applied at 1.0 L/ha only

3 - Application should be made to foxtail barley before initiation of seedhead or senescence of lower leaves.

TORCH DS (450 g/L)

To control several broadleaf weeds (see Field Crops Chart in 1984 Guide) in winter wheat and fall rye apply 730 mL/ha in 100 L water in the spring when weeds are in the two to four leaf stage. Winter wheat and fall rye may be sprayed until the flag leaf stage but weeds will not be adequately controlled if they are shaded by the crop.

TORDON 202 C (212 g/L)

Recropping restrictions have been revised. Do not plant fields previously treated with Tordon 202 C to alfalfa or sunflowers until at least the third growing season after the year of treatment, or beans, lentils, peas or potatoes until at least the fifth growing season after the year of treatment.

Wheat, oats, barley, rapeseed, mustard or flax may be planted the season following Tordon 202 C application.

Crops other than those listed above should not be grown on any fields which have been previously treated with Tordon 202 C.

Due to the length of recropping restrictions the use of Tordon 202 C in Manitoba is not recommended on farms where vegetable crops, pulse crops, or forage legumes are included in the crop rotation.

OTHER CHANGES

GLEAN (75% DF)

Glean has a temporary registration for use on wheat, barley, and oats in the Prairie Provinces. The 1984 label restricts use to fields having a pH of less than 7.5. If soil pH is between 7.0 and 7.5 only wheat can be grown the year following treatment. If soil pH is below 7.0 wheat or barley may be grown the year after treatment. Corn, broadleaf crops and some seedling forage grasses are sensitive to Glean residues. A field bioassay is required the year before rotating to other crops.

Glean is not recommended for use in Manitoba, because of the serious restrictions on crop rotations for several years after application. Label information and field bioassay procedures are available from DuPont representatives, ag reps and weed supervisors.

*THIS IS A CORRECTION TO TABLE 6 THAT APPEARED IN THE 1984 GUIDE TO CHEMICAL WEED CONTROL

TABLE 6. HERBICIDES FOR SUGAR BEETS

HERBICIDES \ WEEDS	Barnyard Grass	Cereal Grains	Foxtail, Green	Foxtail, Yellow	Wild Oats	Quack Grass	Buckwheat, Wild	Chickweed	Henbit	Kochia	Lamb's-Quarters	Mustard, Wild	Nightshade	Pigweed, Prostrate	Pigweed, Red Root	Pigweed, Tumble	Purslane	Shepherd's Purse	Annual Smartweed Species, Lady's Thumb	Stinkweed
Avadex BW					●															
Basfapon/Dalapon/Dowpon/Dowpon M			●	●																
Betanal			●	●			●			●	●	●								
Betanex							●				●	●			●					●
Carbyne 2 EC					●															
Eptam	●	●	●	●	●	S		●	●		●		●	●	●	●	●			
Gramoxone	CONTROLS ANNUAL WEED SEEDLINGS AND TOP GROWTH OF PERENNIAL WEEDS																			
Herbicide 273							●												●	
Hoe-Grass	●		●	●	●															
NaTA TCA/TCA Solution			●	●																
Nortron	●	●	●	●	●					●	●				●		●	●	●	
Poast	●	●	●	●	●															
Ro-Neet	●		●	●	●				●		●		●		●		●			
Roundup[A]	CONTROLS ANNUAL WEED SEEDLINGS AND TOP GROWTH OF PERENNIAL WEEDS																			

LEGEND * apply to emerged weeds before or after planting but before sugar beets emerge
● controlled by rates recommended for use in sugar beets
S suppression only

HERBICIDE CONCENTRATION AND FORMULATION

Symbols

EC - emulsifiable concentrate

F - flowable

SN - solution

g/L - grams per litre

Trade Name	Generic Name	Concentration & Formulation	Manufacturer
Avenge 200 C	difenzoquat	200 g/L SN	Cyanamid Canada Inc.
Bromox C-100	bromoxynil	450 g/L EC	Allied Chemical Services Ltd.
Buctril M	bromoxynil/MCPA (1:1)	280 g/L + 280 g/L EC	May & Baker Canada Inc.
Fusilade	fluazifop-butyl	250 g/L EC	Chipman Inc.
Glean	chlorsulfuron	75% dry flowable	DuPont Canada Inc.
Hoe-Grass 284	diclofop-methyl	284 g/L EC	Hoechst Canada Inc.
Pardner	bromoxynil	225 g/L EC	May & Baker Canada Inc.
Roundup	glyphosate	356 g/L SN	Monsanto
Torch DS	bromoxynil	450 g/L EC	Allied Chemical Services Ltd.
Tordon 202 C	picloram/2,4-D (1:16)	212 g/L SN	Dow Chemical Canada Inc.

POOR

QUALITY

ORIGINAL